



REPLACEMENT CLAIMS

1. A magnetic thin film comprising:

an iron nitride thin film having a nitrogen martensite α' phase with α (002) surface formed on a substrate, said iron nitride thin film being produced on the substrate in a manner so as to permit diffraction rays from a γ' phase to be observed, said α' phase having diffraction rays observed from only said α (002) surface.

2. A magnetic thin film comprising:

iron (α - Fe) thin films and iron nitride thin films alternately deposited on the substrate, said iron nitride thin films having a nitrogen martensite α' phase with α (002) surface, said α' phase having diffraction rays observed only from said α (002) surface, a coercive force of said iron nitride thin films being substantially 1.0 Gauss.

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